

CIRCUIT AND METHOD FOR TEMPERATURE COMPENSATED CONTRASTABSTRACT

A circuit and method for automatically compensating display contrast for temperature changes allowing user preference setting. The invention can be applied to any device having a display, but in one embodiment, portable electronic devices such as palmtops, other portable computers, personal digital assistants, cellular telephones, portable web browsers, remote controls, pagers, etc. are described herein. The invention allows a user to set a desired contrast preference and provides display feedback to the user as the preference setting is being made. Once the preference is set, the invention automatically compensates the contrast adjustment based on variable temperature conditions to maintain the display according to the user preference. For instance, as the temperature falls, the invention automatically detects this and adjusts the contrast in a first direction to maintain the user preference. Alternatively, as the temperature rises, the invention automatically adjusts contrast in a second direction to maintain the user preference.